

VARIATIONS OF *grossulariata*.

- ab. *cuneata*, n. ab.—Distinguished from the type by a wedge-shaped horizontal black stripe joining the seventh outermarginal spot to the central fascia on the forewings. It has also a similar, but less complete, band, extending from the third outermarginal spot on the forewings, to the central fascia. Three specimens bred from Hazeleigh, and one from Herne Hill.
- ab. *cupreofasciata*, n. ab.—With fascia of forewings copper-coloured. Bred from Bristol, 1908.
- ab. *igneofasciata*, n. ab.—With fascia of forewings fiery-red. Occurs in Lancashire, and does not seem very rare.
- ab. *radiata*, n. ab.—With marginal spots on forewings radiated.
- ab. *nigrofasciata*, n. ab.—Forewings with broad central black fascia containing but little orange or yellow.
- ab. *infrafasciata*, n. ab.—With central row of black spots on upperside of hindwings coalescing into a more or less complete band. Fairly common.
- ab. *infrabfasciata*, n. ab.—Similar to above, but with an extra black band above the central one. Not uncommon.
- ab. *nigrocaerulea*, n. ab.—A blue-black form of *nigrosarsata*, very thickly dusted on all wings, but with white interspaces between the black costal blotches and between the black outermarginal spots on both wings. Very beautiful and striking. One specimen, bred in 1908, from a cross between Lancashire and Yorkshire parents. A very similar one bred this year from a wild larva found in this neighbourhood (Hazeleigh).
- ab. *rubrolutea*, n. ab.—All wings entirely suffused with bright reddish-orange. A glorified form of ab. *lutea*, and is of Lancashire origin.
- ab. *albispatiata*, n. ab.—Forewings with broad white area between central fascia and outer margin. Bred from larvæ received from Leeds, 1908.
- ab. *albipalliata*, n. ab.—Forewings with broad white area (like a mantle) intervening between black basal blotch and discal spot, the area outside the latter being frequently much blackened. Bred from Huddersfield, 1908 and 1909.
- ab. *flavipalliata*, n. ab.—Same as last, but with luteous mantle. Of similar origin, but one of the parents being ab. *lutea* from Lancashire. The mantle in both these forms often contains one or two small black spots.

Of all the above aberrations I possess more than a single representative. Now and then I rear an absolutely unique form of this protean species, but think it hardly right to assign separate names to these great rarities. Every year I have succeeded in obtaining a new form or two (by dint of rearing many thousands of larvæ), but so far I have not been able to produce the pure white form which I named ab. *candida* in my original paper on this species, nor the pure black form which Mr. W. Beattie bred from Mickleham, and Mr. L. W. Newman from larvæ of ab. *varleyata*. This, I think, may be aptly called ab. *nigra*, n. ab. Should I be fortunate enough to rear either of these, I shall not say of *candida*, as Virgil did of horses, "color est deterrimus albis," but in praise of *nigra*, I might be tempted to fire off the famous line "Rara avis in terris, nigroque simillima cygno."

Collecting in the Isle of Wight, with some additions to the Fauna.

By HORACE DONISTHORPE, F.Z.S., F.E.S.

Having taken a house at Ryde for August, I spent the whole of that month in the Isle of Wight, and was able to do a good deal of collecting. In the following notes I give the result, and also record all the additions I know to the fauna of the island. Mr. Champion has kindly supplied me with a list of some of his additions, as also one or two made by his son in August. The weather for the first fortnight was most beautiful, but after that it broke up, in fact we can only be said to have had two weeks summer this year. The species marked with an * are new to the 1909 published list.

COLEOPTERA:—**Badister unipustulatus*, Bon.—Several specimens taken in a ditch, Sandown (Beare). **Oodes helopioides*, F.—Sandown (G. C. Champion). **Harpalus melancholicus*, Dej.—Not uncommon at roots of *Galium* at St. Helens. **Harpalus parallelus*, Dej.—At roots of grass, Niton. **Pterostichus dimidiatus*, Ol.—One specimen on path, September (Taylor). **Laemostenus complanatus*, Dej.—Taken by C. J. C. Pool at Cambourne. **Anchomenus livens*, Gyll.—Beating carrion, etc., in the Whitfield Woods (Dollman and Donisthorpe). **Patrobus excavatus*, Pk.—Sandown (G. C. Champion). **Dromius vectensis*, Rye.—A specimen was swept by Professor Beare at Sandown; this is said to be “not uncommon and generally distributed in the south of the island,” in Newbery’s list. This is certainly not my experience, or that of any other collector I know; I have only taken four specimens in all the visits I have made to the island. **Drypta dentata*, Rossi.—Was taken this year at Luccombe, by Jeffery, Donisthorpe, Taylor, Beare, Mitford, and Pool. It is a good many years since it occurred before. **Bidessus geminus*, F.—Sandown, August (H. G. Champion). **Agabus chalconatus*, Pz.—Sandown (G. C. Champion). **Ilybius fuliginosus*, F.—In ditch, Sandown (Donisthorpe). **Ilybius ater*, De G.—In pool on cliff, Sandown (Donisthorpe). **Helophorus porculus*, Bedel.—St. Helens, August (Donisthorpe). **Ochthebius lejolisi*, Muls.—This interesting species was discovered by my friend Mr. Hereward Dollman and myself, in numbers, in pools of salt-water in rocks at Seaview in August. **Cyclonotum orbiculare*, F.—Sandown (G. C. Champion). **Cercyon quisquilius*, L.—Sandown (Taylor). **Oxyptoda brachyptera*, Steph.—Under seaweed, Fishbourne (Donisthorpe). **Thiasophila angulata*, Er.—In nests of *Formica rufa*, Parkhurst Forest, April (Donisthorpe). **Calodera rufescens*, Kr.—Sandown, June, 1898 (G. C. Champion). **C. umbrosa*, Er.—In sand-pit, King’s Quay, August (Donisthorpe). **Ocalea castanea*, Er.—Sandown (Taylor). **Dinarda märkeli*, Kies.—In nests of *Formica rufa*, Parkhurst Forest, April (Donisthorpe). **Dinarda hagensi*, Wasm.—In nests of *Formica exsecta*, in Parkhurst Forest, April (Donisthorpe). **Notothecta flavipes*, Gr.—In nests of *F. rufa*, Parkhurst Forest, April (Donisthorpe). **Homalota gyllenhali*, Th.—In ditch, Sandown (Donisthorpe). **H. caesula*, Er.—In moss, St. Helens’ sand-hills (Beare). **H. graninicola*, Gr.—Sandown (G. C. Champion). **H. vilis*, Er.—In ditch, Sandown (Donisthorpe). **H. euryptera*, Steph.—In carrion, Whitefield Woods (Donisthorpe). **H. nigricornis*, Th.—In carrion, Whitefield Woods (Donisthorpe). **H. germana*, Shp.—In carrion, Whitefield Woods and Quarr Abbey (Donisthorpe). **H. intermedia*, Th.—In carrion, Whitefield Woods (Donisthorpe). **H. aterrîma*, Gr.—In carrion, Quarr Abbey (Donisthorpe). **H. fungi* var. *clientula*, Er.—Sweeping, Whitefield Woods (Donisthorpe). I have to thank Mr. Elliman for kind help with the names of the *Homalotae*. **Tachyusa atra*, Gr.—On wall, Sandown (Beare). **Tachyusa scitula*, Er.—Rather common on damp sand at Luccombe Chine in August. **Gyrophæna affinis*, Mann.—Evening sweeping, Whitefield Woods, August (Donisthorpe). **Oligota pusillima*, Gr.—In cut grass, Ryde (Donisthorpe). **Hypocyptus laeviusculus*, Mann.—Sweeping, St. Helens (Donisthorpe). **H. apicalis*, Bris.—On the wing, Ryde (Donisthorpe). **Tachinus bipustulatus*, F.—At “*Cossus*-infected tree,” Ryde (Donisthorpe). **T. marginellus*, F.—Sandown (Taylor). **Stenus*

declaratus, Er.—Sandown (G. C. Champion). **S. juscicornis*, Er.—Whitefield Woods, sweeping, August (Donisthorpe). **S. pallipes*, Gr.—Roots of reeds, Sandown (Beare). **S. canescens*, Rosen.—Sandown (G. C. Champion). **Platystethus alutaceus*, Th.—In damp ditch, Sandown (Taylor). **P. capito*, Heer.—Sandown (G. C. Champion). *P. nitens*, Sahl.—A series was taken in a ditch with *P. alutaceus* and *nodifrons*, at Sandown. *Bledius longulus*, Er.—Was abundant at Luccombe Chine. **Trogophloeus fuliginosus*, Gr.—On wall, Sandown (Beare). **T. pusillus*, Gr.—Sandown (G. C. Champion). **T. sp. ?*.—Under sea-weed, Fishbourne (Donisthorpe); comes in the “*tenellus* group,” with cheeks longer than eyes, and eyes moderate, but distinct, I think. **Homaiium striatum*, Gr.—On wall, Sandown (Beare). *Pseudopsis sulcata*, Newn.—Haystack refuse, Sandown (Beare). The only other Isle of Wight record is the specimen taken by F. Walker in 1834, from which the genus and specimen was described by Newman (*Ent. Mag.*, 1834, p. 13). *Cyrtusa paucilla*, Sch.—Evening sweeping in Whitefield Woods. **Anisotoma flavicornis*, Ch.—Evening sweeping in Whitefield Woods (Donisthorpe). *Necrophorus interruptus*, Steph.—Occurred on carrion in the Whitefield Woods. **Silpha 4-punctata*, L.—Bordwood Copse (Taylor). *Colon brunneum*, Lat.—Evening sweeping at Whitefield Woods and at Luccombe. *Actinopteryx fucicola*, All.—Abundant under sea-weed at Fishbourne. **Actidium coarctatum*, Hal.—A small series under sea-weed on the beach at Fishbourne, August (Donisthorpe). **Trichopteryx montandoni*, All.—In nests of *F. rufa*, Parkhurst Forest, April (Donisthorpe) [Named by Herr Ericson.]. **Cryptomorpha desjardinsi*, Guér.—Introduced species. On bunch of bananas, Sandown (Taylor). **Anisosticta 19-punctata*, L.—Brickfield, Sandown (Taylor); I subsequently swept it at St. Helens. *Hyperaspis reppensis* was swept at Sandown. **Scymnus ater*, Kug.—Whitefield Woods, sweeping, August (Donisthorpe). **Carcinops 14-striata*, Steph.—Haystack refuse, Sandown (Beare). **Micropylus porcatus*, Pk.—Sandown (G. C. Champion). **Pocadius ferrugineus*, F.—Whitefield Woods, sweeping, August (Donisthorpe). **Laemophloeus ater*, Ol.—Under bark, Shanklin (C. J. C. Pool). *Antherophagus pallens*, Ol.—Was swept in the Whitefield Woods, and at Limpet Run. **Atomaria gutta*, Steph.—Burnt House, Sandown (Beare). **Ephistemus globosus*, Walzl.—Haystack refuse, Sandown (Taylor). *Dermestes murinus*, L.—Occurred in dead birds, Whitefield Woods. *Limnichus pygmaeus*, Sturm., and *Georyssus pygmaeus*, F.—Were common on damp sand at Luccombe Chine. **Aphodius scybalarius*, F.—Totland (H. G. Champion). *Agrilus laticornis*, Ill.—A ♂ was swept in Whitefield Woods. **Microcara livida*, F.—Sandown (Taylor). **Scirtes orbicularis*, Pz.—Sandown (G. C. Champion). *Malthinus balteatus*, Suf.—A pair were swept near Ryde. **M. atomus*, Th.—Sweeping, Luccombe Chine, August (Dollman). *Strangalia armata*, Hbst.—Was not uncommon in August in the Whitefield Woods, and *Liopus nebulosus* was also swept there. *Pogonochaerus dentatus*, Four.—St. Helens, dug out of ivy stems (Dollman and Donisthorpe). *Gracilia minuta*, F.—On post near dead hedge, Sandown. **Bruchus atomarius*, L.—Sandown (G. C. Champion). *Cryptocephalus bipunctatus*, L.—Again found this year by Messrs. Mitford and Pool at Niton. Newbery's record of this species in the “Guide” is most misleading and inaccurate. The first two specimens

taken of this species were the type form, which was new to Britain in 1907, by Mr. Mitford. It is true I took it in some numbers in 1908, but by sweeping long grass, not on sallow, birch, or oak, none of those trees being within a mile of the spot. *C. pusillus*, F.—Sweeping in the Whitefield Woods. **Chrysomela didymata*, Scrib.—Luccombe Chine (Taylor). **Galerucella riburni*, Pk.—Abundant on guelder-rose, Whitefield Woods, August (Donisthorpe). *Longitarsus waterhousei*, Kuts.—Sweeping in the Whitefield Woods. **L. aeruginosus*, Foud.—On *Eupatorium cannabinum*, Luccombe Chine (Dollman). **Longitarsus balotae*, Marsh.—On *Ballota nigra*, Yar Bridge (Taylor). *Haltica coryli*, All.—Abundant on hazel in the Whitefield Woods. **H. pusilla*, Duft.—Whitefield Woods, August (Donisthorpe). **Phyllotreta exclamationis*, Thunb.—Brading 1907 (Beare). **Chaetocnema arida*, Foud.—Swept in the Whitefield Woods. Much less strongly punctured than *hortensis*, but smaller. **Psylliodes chrysocephala*, L.—Sweeping, Ryde (Dollman). **P. chrysocephala* var. *anglica*, F.—Sweeping, Ryde (Donisthorpe). *Cassida vibex*, L.—On thistles, Whitefield Woods, Ryde, and King's Quay. *C. vittata*, Vill.—Beare and I found it in the greatest profusion at the roots of *Arenaria maritima* at Blackgang Chine. Many specimens were immature when they were plain green without any stripe. When kept for some weeks the stripes developed. *C. nobilis*, L.—Roots of plants, St. Helens.—*C. nobilis*, var.—Dollman and I took four specimens of a *Cassida*, at roots of *Chenopodium*, at St. Helens, green, with a beautiful crimson horse-shoe on the elytra—the green the colour of the leaves, and the crimson that of the colour at the joints of the leaves and branches of the plant. We met Professor Poulton and Mr. Guy Marshall, and were able to show them how beautifully the beetle matched the plant in life. Of course, now dead, they are the usual dirty green colour. It may be a form of *nobilis*, as the marks on the head form a Y; the thorax is dull, and the base of the femora black. The general shape, however, is more that of *vittata*. **Helops pallidus*, Curt.—At roots of marram grass, St. Helens, August (Donisthorpe). *Oedemera lurida*, Marsh.—King's Quay, sweeping. **Meloe brevicollis*, Pz.—Limpet Run (Goldthwait). *Apoletus coryli*, L.—On hazel, Whitefield Woods, August. *Bytiscus betuleti*, F.—On hazel, Bordwood Copse (Poole). Why Newbery should suggest that this insect, recorded by Guyon on hazel, Shambler's Copse, should be *Deporaus betulae*, it is impossible to understand. **Rhychites uncinatus*, Th.—Sandown (Champion). *Apion difforme*, Germ., and *A. schönherri*, Boh.—Whitefield Woods. *A. aeneum*, F.—Wooton Church. **Polydrusus pterygomalis*, Sch.—Whitefield Woods and King's Quay (Donisthorpe). **P. flavipes*, DeG.—Not uncommon in the Whitefield Woods, also at St. Helens, August (Donisthorpe). *Sitones meliloti*, Walt.—Abundant on melilot at Luccombe. **Hypera nigrostris* var. *ononidis*, Fow.—Luccombe Chine (Donisthorpe). *Tychius squamulatus*, Gyll.—Roots of *Lotus corniculatus* at Blackgang. *T. tomentosus*, Steph.—At roots, Luccombe Chine. **Cionus hortulanus*, Marsh.—On *Scrophularia*, Whitefield Woods (Donisthorpe). **Limnobaris pilistriata*, Steph.—Whitefield Woods, August (Donisthorpe). *Hylesinus crenatus*, F.—Taken in twigs of ash at Luccombe Common (Dollman, Beare, Taylor, and Donisthorpe). **Phloeophthorus rhododactylus*, Marsh.—Sweeping at

Sandown, August (Donisthorpe). This adds 82 species and 2 vars. to the list, which brings the total at present known, up to 1516.

HYMENOPTERA.—Several nests of *Formica exsecta*, were discovered in Parkhurst Forest in April. *Solenopsis fugax* was abundant, with *Lasius niger* and **Formica rufibarbis* var. *fuscusrufibarbis*, at Sandown. *Myrmecina latreillei* was found sparingly at St. Helens. *Myrmosa melanocephala* ♂ and ♀s were taken at Luccombe Chine. Several small, very dark ♀s of *Methoca ichneumonoides* occurred in the latter locality. The following species new to the list, were taken. One new bee—**Nomada alboquttata*. Three sawflies—**Allantus arcuatus*, **Athalia glabricollis*, and **Emphytus rufocinctus*. Two Chrysidids—**Hedychridium roseum*, Ryde, and **Notozus junzerii*, Sandown. **Pezomachus aquisgranensis* var. *neesi* was taken last year in a nest of *Myrmica laevinodis* at Sandown. **Pachylomma buccata* was captured, hovering over a nest of *Lasius niger*, at St. Helens. **Lagynodes pallidus*—two specimens taken in a nest of *Formica fusca* in Parkhurst Forest in April.

HEMIPTERA.—The following bugs occurred, kindly named for me by Mr. E. A. Butler—*Myrmus miriformis*, Fall., ♂ and ♀. Larva (nymph) of *Syromaster marginatus*, L., King's Quay. *Dolycoris baccarum*, L., Ryde. *Piezodorus lituratus*, F., Sandown. *Elia acuminata*, L., Sandown. *Issus coleoptratus*, Creoff., Whitefield Woods. *Tettigonia viridis*, L., ♂, Whitefield Woods. *Rhyparochronus chiragra*, F., St. Helens. *Gnathoconus picipes*, Fall., St. Helens. *Solda littoralis*, L., King's Quay. **Corizus subrufus*, Gmel., Whitefield Woods. *Pisma quadrata*, Fieb., St. Helens.

DIPTERA.—**Phora formicarum*—Hovering over a nest of *Lasius niger*, at St. Helens. **Phryæ vulgaris*.—Four specimens bred from larvæ which came out of an emaciated Noctuid larva, found in the Whitefield Woods at roots of flea-bane. **Musillus subsaltans*.—Abundant on white sand at Luccombe. **Sargus iridatus*.—Sandown. **Theraplectes distinguendus*.—Whitefield Woods [Kindly named for me by Mr. Collin.]

SPIDERS.—The following spiders are new to the list. **Thyreos-thenius biorata*, Camb.—Taken in nests of *Formica rufa*, in Parkhurst Forest, in April. **Epeira alsine*, Wal., ♀, **Cercidia prominens*, West., ♂, **Pachygnatha listeri*, Clk., ♂s, **Xysticus ulmi*, Habs., ♂, **Crustulina guttata*, Wid., ♀, and **Phyllonethis lepida*, Walek., in the Whitefield Woods, August. I captured a young specimen of *Myrmarachne formicarius*, Walek., again with *Myrmica scabrinodis*, this time at Luccombe Chine.

Depressaria putridella, Schiff.—A species new to Britain

(with two plates).

By ALFRED SICH, F.E.S.

(Concluded from p. 257).

HABITS OF LARVA.—Nothing appears to be known of the egg-laying, ovum, or of the habits of the very young larva. Probably the species hibernates as an imago, and lays its eggs on the foodplant in the spring. Nolcken mentions finding the larvæ near Cannes, in various stadia, on May 15th, 1880, and he bred moths from these between June 13th and 19th. Here the species is not so early, the larvæ not being fullgrown till the third or fourth week in June, and the moths appearing in the latter half of July and early August. In